

**THE DISTRIBUTION OF THE COCHYLIIINAE (LEPIDOPTERA; TORTRICIDAE) IN SCOTLAND.**

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**TORTRICIDAE**

**INTRODUCTION**

The recent completion of the curation of the tortricoid subfamily Cochylinae in the collection of the National Museums of Scotland (NMS) is an opportune time for a reappraisal of the Scottish distribution of this group. Thus the following is an attempt at a comprehensive up-to-date account of the Watsonian vice-county distribution of the Scottish Cochylinae, with the further purpose of making more widely available those records not previously published.

All the 47 species of Cochylinae resident in Britain are represented in the 3,000 specimens of this subfamily in the NMS collection. Thirty-two species have been recorded from Scotland but the authenticity of two of these species requires confirmation. Scottish specimens of this group are present in the collection amassed by A.B.Balfour, J.W.Bowhill, P.W.Brown, I.C.Christie, J.A.Clark, A.A.Dalglish, A.B.Duncan, D.W.H.Fennell, D.R.Gifford, R.K.Greville, D.J.Jackson, G.A.T.Jeffs, R.F.Logan, C.W.Mackworth-Praed, D.A.B.Macnicol, R.M.Mere, K.J.Morton, E.C.Pelham-Clinton, T.E.D.Poore, A.Richardson and B.W.Weddell. Additional material has been contributed by K.P.Bland, P.A.Buxton, J.L.Campbell, D.L.Coates, Edinburgh University Biological Society, A.G.Long, R.I.Lorimer, I.H.K.Lyster, E.A.M.MacAlpine, P.Marwick, R.& B.Mearns, J.M.Nelson, M.G.Pennington, G.Petrie, O.W.Richards, T. Rogers and A.R.Waterston.

A comprehensive list of the previously published records of Scottish Lepidoptera is held in the National Museum of Scotland (NMS), Chambers Street, Edinburgh in the "Scottish Insects Record Index" (SIRI). This lists under each species the bibliographic reference and an abbreviated locality, often in the form of the Watsonian vice-county number (Shaw, 1987). SIRI contains some 130 references which include information on the Scottish distribution of the Cochylinae. These have all been carefully checked back to the original to ensure the accuracy of the distribution data quoted here (Table 1). For completeness the author has also included his own records and all other unpublished records known to him.

Watsonian vice-counties (Table 2) divide Britain up into approximately equal sized areas that people can identify with. Current unitary authority boundaries are based more on areas of equal population and so have little value for wildlife recording. Full details of the addition records are shown below. The earliest record is shown, where multiple records exist. Records accompanied by specimens have in some cases been given priority.

**Cochylinae**

- Hysterothorax maculosana* (Haworth, 1811)  
Vc. 72 Grove, Dumfries. 9.vi.1977 A.B.Duncan.  
Vc. 88 Killin, Perth. 14.vi.1985 M.R.Young.  
Vc. 97 Fort William, Inverness. 26.v.1957 E.C.Pelham-Clinton.  
Vc. 98 Port Appin, Argylls. 26.v.1956 E.C.Pelham-Clinton.  
Vc. 105 Strath More, W. Ross. 10.vi.1963 E.C.Pelham-Clinton.  
Vc. 106 Alcaig, Ross. 18.vi.1988 E.C.Pelham-Clinton.  
*Phalonidia affinitana* (Douglas, 1846)  
Vc. 73 Caulkerbush, Kirkcud. Larvae 27.xii.1970 (reared) E.C.Pelham-Clinton.  
*P. mammiana* (Fischer von Röslerstamm, 1839)  
Vc. 79 Selkirk. 28.vi.1941 B.W.Weddell.  
Vc. 82 Tynninghame, E. Loth. 5.vi.1933 A.B.Balfour. The specimen is very worn and without an abdomen and so is unidentifiable. It bears an identification label "*Phalonidia mammiana* FR." in Alice Balfour's handwriting.  
*Gynnidomorpha minimana* (Caradja, 1916)  
Vc. 80 Whitlaw Moss, Roxburgh. 3.vii.1981 K.P.Bland - erroneously published as in Vc.79. No records from Vc.79 are known to me.  
*G. permixtana* ([Denis & Schiffermüller], 1775)  
Vc. 98 At the 1957 Annual Exhibition of the South London Entomological Society, Pelham-Clinton (1958) exhibited specimens of *Phalonidia walsinghamana* Pierce (= *G. minimana*) from Port Appin. This record was repeated by Bradley, Tremewan and Smith (1973). The identity of these specimens was corrected to *G. permixtana* (Pelham-Clinton, 1982).  
*G. vectisana* (Humphreys & Westwood, 1845)  
Vc. 73 Auchencairn, Kirkcud. 2003 E.A.M. MacAlpine.  
*Cochylimorpha alternana* (Stephens, 1834)  
Vc. 92 There are 3 specimens labelled "Aberdeen" in the J.A.Clark collection which was received in 1906. This is a surprising record and the number and condition of the specimens suggests they may have been mislabelled.  
*C. straminea* (Haworth, 1811)  
Vc. 73 Merse Head, Kirkcud. 20.vii.1996 J.MacKay.  
Vc. 84 Queensferry, W. Loth. Pre 1857 R.K.Greville.  
Vc. 96 Kincaig. 5.vii.1950 P.Harwood (Macnicol coll.).  
Vc. 97 Spean Bridge, Inverness. 30.vi.1965 E.C.Pelham-Clinton.  
Vc. 105 Kishorn, W.Ross. 18.vii.1984 P.W.Brown.

- Agapeta hamana* (Linnaeus, 1758)  
 Vc. 72 Connansknowe, Dumfries. 26.vi.1998 R.Mearns.  
 Vc. 79 Midgehope Marsh, Selkirks. 3/4.viii.1979 K.P.Bland.  
 Vc. 84 Winchburgh, W. Loth. 2.viii.1969 E.C.Pelham-Clinton.  
 Vc. 95 Garten Railway Line, Elgins. 14.vi.1975 M.R.Young.  
 Vc. 96 Newtonmore Golf Course, E. Inverness, 1.vii.1992 M.R.Young.  
 Vc. 97 Kilchoan, Ardnamurchan. 28.vi.1965 E.C.Pelham-Clinton.  
 Vc. 105 Kishorn, W.Ross. 1.vii.1985 P.W.Brown.  
*A. zoegana* (Linnaeus, 1767)  
 Vc. 72 Castlehill, Dumfries. 7.viii.1973 A.B.Duncan.  
 Vc. 73 Kirkconnell, Kirkcud. 31.vii.1977 A.B.Duncan.  
 Vc. 83 Burdiehouse, Midloth. 7.vii.1958 D.A.B.Macnicol.  
 Vc. 84 Winchburgh, W.Loith. 11.viii. 1965 E.C.Pelham-Clinton.  
 Vc. 90 Lunan Bay, Angus. 7.viii.1996 B.Goater.  
*Aethes cnicana* (Westwood, 1854)  
 Vc. 73 Lochaber Loch, Kirkcud. 2.vii.1996 J.MacKay.  
 Vc. 75 Kennedy's Pass, Ayrshire 19.vii.1984 I.C.Christie.  
 Vc. 78 Menzion Farm, Tweedsmuir. 23/24.vii.1979 K.P.Bland.  
 Vc. 79 Thornielee, Selkirks. 19.vi.1981 A.Buckham  
 Vc. 85 Tayport, Fife. 4.vii.1970 E.C.Pelham-Clinton.  
 Vc. 89 Glenshee, Perth. 1976 E.F.Hancock.  
 Vc. 96 Rothiemurchus. vii.1896 K.J.Morton.  
 Vc. 98 Inverloch, Argylls. 26.vi.1943 C.W.Mackworth-Praed.  
 Vc. 100 Shiskine, Isle of Arran. 26.vi.1999 M.R.Young.  
 Vc. 101 Tayvallich, Kintyre. 5.vii.1974 E.C.Pelham-Clinton.  
 Vc. 102 Colonsay. Date unknown. T.C.Dunn.  
 Vc. 105 Rassal, W. Ross. 25.vi.1991 P.W.Brown.  
 Vc. 106 Swordale, E. Ross. 11.vii.1909 D.J.Jackson.  
 Vc. 110 Isle of Lewis. 1901 H.McArthur (Mackworth-Praed coll.).  
*A. piercei* Obratsov, 1952  
 Vc. 73 Balmae, Kirkcud. 18.vi.1999 J.MacKay.  
 Vc. 74 Stranraer, Wigtown. 22.vi.1998 R.Mearns.  
 Vc. 75 Bennane Head, Ayrshire. 4.vi.1987 I.C. Christie.  
 Vc. 82 Petersmuir, E.Loith. 28.vi.1935 A.B.Balfour.  
 Vc. 84 Queensferry, W. Loth. pre 1857 R.K.Greville.  
 Vc. 88 Kinloch Rannoch, Perth. v.1927 T.E.D.Poore.  
 Vc. 96 Speybridge, Inverness. 9.vi.1968 E.C.Pelham-Clinton.  
 Vc. 97 Arisaig, Western. 2.vi.1941 C.W.Mackworth-Praed.  
 Vc. 101 Tayvallich, Kintyre. 12.vi.1981 I.C.Christie.  
 Vc. 105 Kishorn, W.Ross. 6.vi.1988 P.W.Brown.  
 Vc. 106 Swordale, E. Ross. 20.vi.1908 D.J.Jackson.  
*A. rubigana* (Treitschke, 1830)  
 Vc. 72 Parkgate, Dumfries. 9.vii.1982 E.C.Pelham-Clinton.  
 Vc. 73 Kirkdale, Kirkcud. 10.vii.1999 R. & B.Mearns.  
 Vc. 79 Glen Kinnon, Selkirks. 31.vii.1999 A.Buckham.  
 Vc. 81 Gordon, Berwicks. 18.vii.1953 E.C.Pelham-Clinton.  
 Vc. 84 Winchburgh, W. Loth. 8.vii.1970 E.C.Pelham-Clinton.  
 Vc. 85 Aberdour, Fife. 27.vii.1969 E.C.Pelham-Clinton.  
 Vc. 89 Kinnaird, Perth. 2/4.vii.2000 J.A.T.Woodford.  
 Vc. 90 The Scorie, Glen Clova. 14.vii.1995 K.P.Bland.  
 Vc. 104 Isle of Canna. 29.vii.1971 J.L.Campbell.  
 Vc. 106 Nigg Sutor, E. Ross. 9.vii.1910 D.J.Jackson.  
*A. smeathmanniana* (Fabricius, 1781)  
 Vc. 72 Kirkton, Dumfries. 7.vii.1996 R. Mearns.  
 Vc. 73 Merse Head, Kirkcud. 20.vii.1996 J.MacKay.  
*Commophila aeneana* (Hübner, 1800)  
 Vc. 92 There are 2 specimens labelled "Aberdeen, 1910 Purdey coll." In British Museum (Natural History) (Bradley, Tremewan & Smith, 1973). This is a surprising record that has never been repeated. A single specimen was taken on a window in Berwick-on-Tweed (Vc.68) in 1887 (Bolam, 1929) suggesting that it is an occasional vagrant.  
*Eupocilia angustana* (Hübner, 1799)  
 Vc. 72 Kettleton, Dumfries. 13.vii.1978 A.B.Duncan.  
 Vc. 73 Kirkconnell, Kirkcud. 4.viii.1976 A.B.Duncan.  
 Vc. 78 Whim Moss, Peebles. 12.viii.1986 K.P.Bland.  
 Vc. 79 Selkirk. 16.vi.1943 B.W.Weddell.  
 Vc. 84 Winchburgh, W. Loth. 20.vii.1979 E.C.Pelham-Clinton.  
 Vc. 94 Cullykhan, Banff. 22.vii.1993 M.R.Young.  
 Vc. 97 Arisaig Islands. 7.vi.1941 C.W.Mackworth-Praed.  
 Vc. 101 Taynish, Kintyre. 11.vi.1983 K.P.Bland.  
 Vc. 105 Beinn Eigha, W. Ross. 1953 O.W.Richards.  
 Vc. 107 East Sutherland. Date unknown. H.N.Michaelis.  
*E. ambigua* (Hübner, 1796)  
 Vc. 83 Logan (in Lowe & Logan, 1852) reported a possible specimen of *Eupocilia ambigua* Steph. from Duddingston (Vc. 83), but later corrected its identity to *E. atricapitana* St. (Logan,

1853). Wilkinson (1859) presumably overlooked this correction and states that *E. ambigua* "has also occurred near Edinburgh".

*Cochylidia subroseana* (Haworth, 1811)

Pre 1895 Scottish records of *Eupoecilia subroseana* refer to the richly coloured form of *Falseuncaria ruficiliana* (see White, 1869; Barrett, 1869; Griffith, 1884; and Banks, 1893).

*C. implicitana* (Wocke, 1856)

Vc. 73 Barlocco Bay, Kirkcud. 6/7.viii.2003 R.& B.Mearns.

*C. ripicola* (Curtis, 1834)

Vc. 73 Abbeyburnfoot, Kirkcud. 22.vi.1996 R.Mearns.

*Falseuncaria ruficiliana* (Haworth, 1811)

Vc. 73 Hannaston Wood, Kirkcud. 22.vi.1996 K.P.Bland.

Vc. 95 Aviemore. 12-21.vi.1909 E.R.Banks (Brit.Mus.(Nat.Hist.) coll.).

Vc 96 Aviemore area, Easternness. 17.vi.1967 E.C.Pelham-Clinton.

Vc. 97 Lochailort, Westernness. 4.vi.1941 C.W.Mackworth-Praed.

Vc. 101 Ronachan, Kintyre. 10.v.1953 E.C.Pelham-Clinton.

Vc. 102 Colonsay. Date unknown. T.C.Dunn.

Vc. 105 Kishorn, W. Ross. 25.vi.1980 P.W.Brown.

Vc. 107 Invershin, Suth. 19.v.1921 F.G.Whittle (Brit.Mus.(Nat.Hist.) coll.).

*Cochylis atricapitana* (Stephens, 1852)

Vc. 73 Carsfad, Dalry, Kirkcud. 4.vi.1993 J.MacKay.

Vc. 74 Tors, Wigtown. 13.viii.1983 A.B.Duncan.

Vc. 75 Ailsa Craig, Ayrshire. 21.v.1983 I.C.Christie.

Vc. 76 Paisley, Renfrews. 12.v.1983 J.Morgan.

Vc. 81 Gordon, Berwicks. 14.vi.1952 E.C.Pelham-Clinton.

Vc. 84 Winchburgh, W. Loth. 4.vi.1964 E.C.Pelham-Clinton.

Vc. 89 Aldclune Meadow, Perth. 19.vi.1988 K.P.Bland.

Vc. 90 The Strone, Glen Clova. Larvae. 4.viii.1992 (reared) K.P.Bland.

Vc. 95 Aviemore. 23.vi.1908 E.R.Banks (Brit.Mus.(Nat.Hist.) coll.).

Vc. 97 Sanna, Ardnamurchan. 6.viii.1956 E.C.Pelham-Clinton.

Vc. 98 Benderloch, Argylls. 15.vi.1974 E.C.Pelham-Clinton.

Vc. 101 Southend, Kintyre. 2.vi.1985 I.C.Christie.

Vc. 103 Carsaig, Mull. 14.vi.1989 I.C.Christie.

Vc. 105 Wester Ross. Date unknown. J.M.Chalmers-Hunt.

*C. nana* (Haworth, 1811)

Vc. 73 Beeswing. 1980 E.F.Hancock.

Vc. 79 Selkirk. 1.vii.1931 B.W.Weddell.

Vc. 81 Gordon, Berwicks. 30.vi.1951 E.C.Pelham-Clinton.

Vc. 84 Blackburn, W. Loth. 9.vi.1970 E.C.Pelham-Clinton.

Vc. 85 Markinch, Fife. 1.vi.1980 E.C.Pelham-Clinton.

Vc. 89 Glen Garry, Perth. 22.vi.1975 E.C.Pelham-Clinton.

Vc. 97 Lochailort, Westernness. 15.vi.1941 C.W.Mackworth-Praed.

Vc. 98 Lephimmore, Argylls. 20.v.1952 E.C.Pelham-Clinton.

Vc.101 Taynish, Kintyre. 14.vi.1985 I.C.Christie.

Vc.105 Kishorn, W. Ross. 26.vi.1985 P.W.Brown.

Vc.107 Shin Falls, Suth. 2/3.vi.1990 K.P.Bland.

*C. pallidana* Zeller, 1847

Vc. 73 Portling, Kirkcud. 7.vi.1984 A.B.Duncan.

*C. roseana* (Haworth, 1811)

G.H.Stainton (1845) reported this species from Airthrey (Vc.86). The record seems most unlikely and H.T. Stainton seems to have realised the error, for the record is under *E. subroseana* (= *Falseuncaria ruficiliana*) in the manual (Stainton, 1859).

It is hoped that entomologists will in future keep this distribution data up-to-date by publishing, or communicating to the author, any new vice-county records they have or get.

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Table 1. The known Watsonian vice-county distribution of the species of the subfamily Cochyliinae (Tortricidae) in Scotland.

Log Book no.	Species	Scottish Vice County																			
		72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91
	PHTHEOCHROA																				
921	inopiana (Haw.)					s	s														
	HYSTEROPHORA																				
924	maculosana (Haw.)	A	s	s	S	s	s					s			S	s	a				s
	PHALONIDIA																				
932	affinitana (Douglas)		A																		
926	mammiana (F.v.R.)							A			A <sup>2</sup>			s				s			
	GYNNIDOMORPHIA																				
930	alissima (Rag.)					S	s														
927	minimana (Carad.)				S					A											
928	permixtana (D. & S.)						s											s			
929	vectisana (H.&W.)	s	a																		
	COCHYLIMORPHIA																				
935	alternana (Steph.)																				
936	straminea (Haw.)	s	a	S	s	S	S			s	S	S	S	A	s	s	s	S	S		s
	AGAPETA																				
937	hamana (Linn.)	A	s	S	s	s	s	a	s	s	S	S	A	s	s	s	s	s	s	s	s
938	zoegana (Linn.)	A	A	S	s					s	s	S	A	A	S	s	s	S	s	a	S
	AETHES																				
945	cnicana (Westw.)		a	s	a	s	S	a	a	s	S	S	S	A	S	s	S	a	s	s	s
950	francillana (F.)									s											
941	hartmanniana (CL)												s	s							
942	piercei Obraz.	s	a	A	A	s	S			s	S	A	S	A		s		A	s		s
946	rubigana (Treits.)	a	a			s	s	a	s	A	S	S	A	A	S	s	s	a	a	s	s
940	rutilana (Hb.)									s											
947	smeathunniana (F.)	a	a		s	s	S					s		S				s			s
939	tesserana (D. & S.)					s															
	COMMOPHILA																				
952	aenana (Hb.)																				
	EUPOECILIA																				
954	angustana (Hb.)	A	A	S	S	S	a	A	s	S	S	S	A	S	S	S	S	S	S	S	S
955	ambiguella (Hb.)												s?								
	COCHYLIDIA																				
956	implicatana (Wocke)		a	s																	
959	rupicola (Curtis)		A																		s
	FALSEUNCARIA																				
960	ruficiliana (Haw.)		a			s	S			s	s	S	S		s	s	s	S	S		
	COCHYLIS																				
966	atricapitana (Steph.)		a	A	A	a				s	A	S	S	A	S		s	s	a	a	s
964	dubitana (Hb.)				s	S	s				s	s	S		s			s			
965	hybridella (Hb.)										s	s	s								
968	nana (Haw.)	s	a			s			A		A	S	S	A	A	S	S	S	A	s	s
967	pallidana Zell.		A		S		s														
962	roseana (Haw.)															s?					

Log Book no.	Species	Scottish Vice County																				
		92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
	PHTHEOCHROA																					
921	inopiana (Haw.)								s													
	HYSTEROPHORA																					
924	maculosana (Haw.)	s	s				<b>A</b>	<b>A</b>	s		<b>S</b>	s		<b>A</b>	<b>A</b>	s						
	PHALONIDIA																					
932	affinitana (Douglas)									s												
926	manniana (F.v.R.)																					
	GYNNIDOMORPHA																					
930	alimana (Rag.)								s													
927	minimana (Carad.)																					
928	permixtana (D. & S.)							<b>S</b>	s	s												
929	vectisana (H.&W.)																					
	COCHYLIMORPHA																					
935	alternana (Steph.)	<b>A?</b>																			s	
936	straminea (Haw.)	s	s			<b>A</b>	a	<b>S</b>	<b>S</b>	s		s	<b>S</b>	s	<b>A</b>		<b>S</b>		<b>S</b>			
	AGAPETA																					
937	hamana (Linn.)	s		a	a	a	<b>A</b>	<b>S</b>	<b>S</b>	s		s	<b>S</b>	<b>S</b>	<b>A</b>		<b>S</b>		s	s		
938	zoegana (Linn.)																					
	AETHES																					
945	mcicana (Westw.)	s	s	s	<b>S</b>	<b>A</b>		<b>A</b>	<b>S</b>	a	a	a	<b>S</b>	s	<b>A</b>	<b>A</b>	s			<b>A</b>	<b>S</b>	<b>S</b>
950	francillana (F.)								s	s											s	s
941	hartmanniana (Cl.)								s	s				s							s	s
942	piercei Obraz.	s	s		s	<b>A</b>	<b>A</b>	<b>S</b>	s		<b>A</b>		<b>S</b>	s	<b>A</b>	<b>A</b>	<b>S</b>		<b>S</b>	<b>S</b>		
946	rubigana (Treits.)	s	s					<b>S</b>	s			s		<b>A</b>		<b>A</b>				<b>S</b>		s
940	rutilana (Hb.)																					
947	smearthmanniana (F.)	s	s	s		s			<b>S</b>					s	<b>S</b>							<b>S</b>
939	tesserana (D. & S.)								s		s											
	COMMOPHILA																					
952	acnaena (Hb.)	s?																				
	EUPOECILIA																					
954	angustana (Hb.)	s	s	a	<b>S</b>	<b>S</b>	<b>A</b>	<b>S</b>	<b>S</b>	<b>S</b>	a	s	s	s	<b>A</b>	<b>S</b>	a	<b>S</b>	s	<b>S</b>	<b>S</b>	s
955	ambiguella (Hb.)																					
	COCHYLIDIA																					
956	implicitana (Wocke)																					
959	rupicola (Curtis)						<b>S</b>				<b>S</b>									s		
	FALSEUNCARIA																					
960	ruficellana (Haw.)	s			a	<b>A</b>	<b>A</b>	<b>S</b>	s		<b>A</b>	a	<b>S</b>	s	<b>A</b>	<b>S</b>	<b>S</b>			<b>S</b>	<b>S</b>	<b>S</b>
	COCHYLIS																					
966	atricapitana (Steph.)	<b>S</b>	s		a	<b>S</b>	a	a	<b>S</b>		<b>A</b>		<b>A</b>		a					<b>S</b>	<b>S</b>	
964	dubitana (Hb.)																					s
965	hybridella (Hb.)																					
968	nana (Haw.)	s	s		s	<b>S</b>	<b>A</b>	<b>A</b>	<b>S</b>	<b>S</b>	<b>A</b>	s			<b>A</b>		a					
967	pallidana Zell.																					
962	roskana (Haw.)																					

S or s – Published records quoted in SIRI.

A or a – Additional records not in SIRI, i.e. currently unpublished.

Letters in **bold** capital script indicate specimen of this provenance is present in NMS.

Table 2. Watsonian vice-counties for Scotland.

Vc Number	Vice County	Vc Number	Vice County
72	Dumfriesshire	93	North Aberdeenshire
73	Kirkcudbrightshire	94	Banffshire
74	Wigtownshire	95	Moray
75	Ayrshire	96	East Inverness-shire (with Nairn)
76	Renfrewshire	97	West Inverness-shire
77	Lanarkshire	98	Argyll Main
78	Peebleshire	99	Dumbartonshire
79	Selkirkshire	100	Clyde Isles
80	Roxburghshire	101	Kintyre
81	Berwickshire	102	South Ebudes
82	East Lothian	103	Mid Ebudes
83	Midlothian	104	North Ebudes
84	West Lothian	105	West Ross
85	Fife & Kinross	106	East Ross
86	Stirlingshire	107	East Sutherland
87	West Perthshire (with Clackmannan)	108	West Sutherland
88	Mid Perthshire	109	Caithness
89	North Perthshire	110	Outer Hebrides
90	Angus (& Forfar)	111	Orkney Islands
91	Kincardineshire	112	Shetland Islands
92	South Aberdeenshire		